

**FLIGHT SURFACE CONTROL TRAINER, DEVICE 11H108****TRAINING CATEGORY:**

MAINTENANCE TRAINING (Misc)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 11H108 is unclassified.

PURPOSE:

To provide Organizational level maintenance training, testing, and troubleshooting of Navy fighter aircraft flight control systems.

INTENDED USE:

The Flight Surface Control Trainer (FSCT), Device 11H108, is designed for use in a classroom environment. The FSCT is to be used to support training of Aircraft Structure Mechanics and Aircraft Hydraulics Mechanics in familiarization and troubleshooting of selected systems of actual Navy aircraft.

FUNCTIONAL DESCRIPTION:

Device 11H108 is a three-dimensional representation of a generic Navy fighter aircraft with fully functional flight surfaces and landing systems.

The FSCT consists of: a trainee station with cockpit, hydraulic system, and trainer electrical power distribution system; an instructor/operator panel (IOP); and a trainer cradle.

Trainees perform operational checkout and basic troubleshooting procedures in response to instructor-induced malfunctions. The instructor induces a simulated malfunction in the trainer by activating one of several toggle switches located on the IOP, or by manually misaligning linkages, pushrods, or cables.

Training includes flight control system configuration and operation, adjusting, rigging, testing, and fault isolation of flight control electrical mechanical components. The trainer is also used to demonstrate the normal operation of the flight controls and associated subsystems; indications of

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abnormal flight control operation; location of flight control components; troubleshooting techniques for isolating faults; and testing of the flight control.

The equipment is designed to operate in a normally-lit classroom. Panel surfaces have a nonglare finish to eliminate reflection problems. Component details and labels are sized and designed to be easily legible without special lighting techniques.

PHYSICAL INFORMATION:

Number of Pieces: Two (2) assemblies, aircraft replication with trainee station and IOP; and trainer cradle.

Sizes: Aircraft Replication:
W = 15', L = 15', H = 9'

Cradle:
W = 3.5', L = 8.3',
H = 3.0'

Weight: Aircraft replication and cradle:
Approximately 2,000 lbs.

A trainee platform is supplied to aid students in observing cockpit operations during training exercises. A dust cover is provided to cover the complete trainer.

POWER REQUIREMENTS:

50 KVA, 115/200-Volt, 3-Phase, 400 Hz. facility power source.

INSTALLATION REQUIREMENTS:

The ideal floor space for each device is 20' x 20', allowing 2.5' of work access around wing-tips, tail section, and nose section. The trainer is designed to pass through a 20' wide by 15' high access opening. Cradle casters provide maximum mobility within the facility.

PUBLICATIONS FURNISHED:

Operation and Maintenance Instructions with Illustrated Parts Breakdown, Flight Surface Control Systems Maintenance Trainer, Device 11H108, (U).

PERSONNEL:

Instructor: One (1) per Device

Operator: Instructor-Operated

Trainees: Three to Five (3 - 5)
Five (5) maximum per Device

Maintenance: Trainer instructors perform organizational maintenance.

CONTRACT IDENTIFICATION:

Manufactured by Educational Computer Corp., Orlando, FL under NAVTRASYSCEN Contract No. N61339-85-C-0118.

LOCAL STOCK NUMBER:

6910-LL-C00-6732